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- 1 [TreeJuxtaposer: scalable tree comparison using Focus+Context with guaranteed v](#)  
 Tamara Munzner, François Guimbretière, Serdar Tasiran, Li Zhang, Yunhong Zhou  
 July 2003 **SIGGRAPH '03: SIGGRAPH 2003 Papers**

**Publisher:** ACM [Request Permissions](#)

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Structural comparison of large trees is a difficult task that is only partially supported by  
 designed for browsing. We present TreeJuxtaposer, a system designed to support the

**Keywords:** Focus+ Context, information visualization, phylogenetic tree, realtime renc

Also published in:

 July 2003 **Transactions on Graphics (TOG)** Volume 22 Issue 3

- 2 [Extended ephemeral logging: log storage management for applications with long li](#)  
 John S. Keen, William J. Dally  
 March 1997 **Transactions on Database Systems (TODS)** , Volume 22 Issue 1

**Publisher:** ACM [Request Permissions](#)

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**Keywords:** OLTP, disk management, logging, long transactions

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A system as complex as the Internet can only be designed effectively if it is based on a  
 points in the architecture where there must be common understanding and agreement

**Keywords:** Architectural principles, application support, architecture design, design fo

Also published in:

 October 2003 **SIGCOMM Computer Communication Review** Volume 33 Issue 4

- 4 [Principled design of the modern Web architecture](#)

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Roy T. Fielding, Richard N. Taylor

May 2002

**Transactions on Internet Technology (TOIT)**, Volume 2 Issue 2**Publisher:** ACM [Request Permissions](#)Full text available: [Pdf](#) (335.47 KB)Additional Information: [full citation](#), [abstract](#), [reference](#)**Bibliometrics:** Downloads (6 Weeks): 40, Downloads (12 Months): 457, Downloads (Overall): 4

The World Wide Web has succeeded in large part because its software architecture has scale distributed hypermedia application. The modern Web architecture emphasizes sc

**Keywords:** Network-based applications, REST, World Wide Web

## 5 [Language support for lightweight transactions](#)



Tim Harris, Keir Fraser

November 2003

**OOPSLA '03:** Proceedings of the 18th annual ACM SIGPLAN conference on

and applications

**Publisher:** ACM [Request Permissions](#)Full text available: [Pdf](#) (224.15 KB)Additional Information: [full citation](#), [abstract](#), [reference](#)**Bibliometrics:** Downloads (6 Weeks): 24, Downloads (12 Months): 230, Downloads (Overall): 1

Concurrent programming is notoriously difficult. Current abstractions are intricate and reliable and scalable. We argue that these problems can be addressed by moving to a

**Keywords:** concurrency, conditional critical regions, non-blocking systems, transactio

Also published in:

November 2003 **SIGPLAN Notices** Volume 38 Issue 11

## 6 [Fault-tolerant platforms for automotive safely-critical applications](#)



M. Baleani, A. Ferrari, L. Mangeruca, A. Sangiovanni-Vincentelli, Maurizio Peri, Saverio Pe

October 2003

**CASES '03:** Proceedings of the 2003 international conference on Compiler**Publisher:** ACMFull text available: [Pdf](#) (736.40 KB)Additional Information: [full citation](#), [abstract](#), [reference](#)**Bibliometrics:** Downloads (6 Weeks): 13, Downloads (12 Months): 103, Downloads (Overall): 1

Fault-tolerant electronic sub-systems are becoming a standard requirement in the autc pervasive in present cars. We address the issue of fault tolerant chip architectures for

**Keywords:** VLSI, automotive, fault-tolerant, multi-processor, safety critical, system-o

## 7 [Efficient user-space protocol implementations with QoS guarantees using real-time](#)

R. Gopalakrishnan, Gurudatta M. Parulkar

August 1998

**IEEE/ ACM Transactions on Networking (TON)**, Volume 6 Issue 4**Publisher:** IEEE PressFull text available: [Pdf](#) (205.42 KB)Additional Information: [full citation](#), [references](#), [citations](#)**Bibliometrics:** Downloads (6 Weeks): 6, Downloads (12 Months): 29, Downloads (Overall): 363

**Keywords:** multimedia communication, networks, operating system kernals, processo protocols




## 8 [Boom chameleon: simultaneous capture of 3D viewpoint, voice and gesture annot](#)



Michael Tsang, George W. Fitzmaurice, Gordon Kurtenbach, Azam Khan, Bill Buxton

October 2002 **UIST '02**: Proceedings of the 15th annual ACM symposium on User interf:

**Publisher:** ACM  [Request Permissions](#)

Full text available:  [Mov](#) (329.00 bytes),  [Pdf](#) (1.22 MB),  [Wmv](#) (329.00 bytes) [Additional Information](#)

**Bibliometrics:** Downloads (6 Weeks): 9, Downloads (12 Months): 84, Downloads (Overall): 112

We introduce the *Boom Chameleon*, a novel input/output device consisting of a flat-panel display. The display acts as a physical window into 3D virtual environments, through which a user can interact with virtual objects.

**Keywords:** 3D navigation, annotation, gesture, spatially-aware display, voice

## 9 Client-server computing in mobile environments

 Jin Jing, Abdelsalam Sumi Helal, Ahmed Elmagarmid  
June 1999

**Computing Surveys (CSUR)**, Volume 31 Issue 2

**Publisher:** ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (233.31 KB)

[Additional Information: full citation, abstract, references](#)

**Bibliometrics:** Downloads (6 Weeks): 73, Downloads (12 Months): 635, Downloads (Overall): 5

Recent advances in wireless data networking and portable information appliances have enabled mobile computing, in which users carrying portable devices have access to data and in turn can perform tasks that were previously restricted to desktop environments.

**Keywords:** application adaptation, cache invalidation, caching, client/server, data distribution, applications, mobile client/server, mobile computing, mobile data, mobility awareness, mobile devices

## 10 Concurrency and distribution in object-oriented programming

 Jean-Pierre Briot, Rachid Guerraoui, Klaus-Peter Lohr  
September 1998

**Computing Surveys (CSUR)**, Volume 30 Issue 3

**Publisher:** ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (289.34 KB)

[Additional Information: full citation, abstract, references](#)

**Bibliometrics:** Downloads (6 Weeks): 30, Downloads (12 Months): 226, Downloads (Overall): 2

This paper aims at discussing and classifying the various ways in which the object paradigm has been used in distributed systems. We distinguish among the library approach, the integrative approach, and the ...

**Keywords:** concurrency, distribution, integration, libraries, message passing, object, parallel programming

## 11 Empowerment in business process reengineering: an ethnographic study of implementation

Kylie Sayer, Linda Harvey

December 1997 **ICIS '97**: Proceedings of the eighteenth international conference on Information Systems

**Publisher:** Association for Information Systems


Full text available:  [Pdf](#) (58.84 KB)

[Additional Information: full citation, references, citation](#)

**Bibliometrics:** Downloads (6 Weeks): 6, Downloads (12 Months): 104, Downloads (Overall): 91

**Keywords:** business process reengineering, ethnography, resistance to change, state transition

## 12 Specification and dialogue control of visual interaction through visual rewriting systems

 P. Bottoni, M. F. Costabile, P. Mussio  
November 1999

**Transactions on Programming Languages and Systems (TOPLAS)**, Volume 21 Issue 4

**Publisher:** ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (886.71 KB)


[Additional Information: full citation, abstract, references](#)

**Bibliometrics:** Downloads (6 Weeks): 13, Downloads (12 Months): 80, Downloads (Overall): 51

Computers are increasingly being seen not only as computing tools but more so as con human-computer interaction (HCI). In this article, the focus is on visual HCI, where th

**Keywords:** control automaton, dialogue control, visual languages

### 13 [The evolution of Coda](#)

 [M. Satyanarayanan](#)

May 2002

**Transactions on Computer Systems (TOCS)** , Volume 20 Issue 2

**Publisher:** ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (441.35 KB)


Additional Information: [full citation](#), [abstract](#), [refe](#)

**Bibliometrics:** Downloads (6 Weeks): 19, Downloads (12 Months): 150, Downloads (Overall): 1

Failure-resilient, scalable, and secure read-write access to shared information by mobil is a fundamental computing challenge. In this article, we describe how the Coda file sy

**Keywords:** Adaptation, Linux, UNIX, Windows, caching, conflict resolution, continuous disconnected operation, failure, high availability, hoarding, intermittent networks, isol mobile computing, optimistic replica control, server replication, translucent cache man.

### 14 [Hoard: a scalable memory allocator for multithreaded applications](#)

 [Emery D. Berger](#), [Kathryn S. McKinley](#), [Robert D. Blumofe](#), [Paul R. Wilson](#)

December 2000 **ASPLOS-IX: Proceedings of the ninth international conference on Archite operating systems**

**Publisher:** ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (430.66 KB)

Additional Information: [full citation](#), [abstract](#), [refe](#)

**Bibliometrics:** Downloads (6 Weeks): 4, Downloads (12 Months): 71, Downloads (Overall): 603


Parallel, multithreaded C and C++ programs such as web servers, database managers becoming increasingly prevalent. For these applications, the memory allocator is often

Also published in:

December 2000 **SIGARCH Computer Architecture News** Volume 28 Issue 5

December 2000 **SIGOPS Operating Systems Review** Volume 34 Issue 5

### 15 [Digital rights management in a 3G mobile phone and beyond](#)

 [Thomas S. Messerges](#), [Ezzat A. Dabbish](#)

October 2003

**DRM '03: Proceedings of the 3rd ACM workshop on Digital rights manage**

**Publisher:** ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (306.59 KB)


Additional Information: [full citation](#), [abstract](#), [refe](#)

**Bibliometrics:** Downloads (6 Weeks): 25, Downloads (12 Months): 261, Downloads (Overall): 3

In this paper we examine how copyright protection of digital items can be securely ma the basic concepts, strategies, and requirements for digital rights management are rev

**Keywords:** MPEG-21, copyright protection, cryptography, digital content, digital right: management, mobile phone, open mobile alliance, security

### 16 [Soft updates: a solution to the metadata update problem in file systems](#)

 [Gregory R. Ganger](#), [Marshall Kirk McKusick](#), [Craig A. N. Soules](#), [Yale N. Patt](#)


May 2000

**Transactions on Computer Systems (TOCS)** , Volume 18 Issue 2


**Publisher:** ACM  [Request Permissions](#)

Full text available:  Pdf (147.90 KB)Additional Information: [full citation](#), [abstract](#), [reference](#)**Bibliometrics:** Downloads (6 Weeks): 22, Downloads (12 Months): 95, Downloads (Overall): 92

Metadata updates, such as file creation and block allocation, have consistently been id security, and availability problems for file systems. Soft updates is an implementation

**17** [PostgreSQL performance tuning](#)[Bruce Momjian](#)August 2001 **Linux Journal**, Volume 2001 Issue 88**Publisher:** Specialized Systems Consultants, Inc.Full text available:  Html (15.50 KB)Additional Information: [full citation](#), [abstract](#), [index terms](#)**Bibliometrics:** Downloads (6 Weeks): 6, Downloads (12 Months): 21, Downloads (Overall): 268



Configure to get the most from PostgreSQL.

**18** [Hoard: a scalable memory allocator for multithreaded applications](#) [Emery D. Berger](#), [Kathryn S. McKinley](#), [Robert D. Blumofe](#), [Paul R. Wilson](#)November 2000 **SIGPLAN Notices**, Volume 35 Issue 11**Publisher:** ACMFull text available:  Pdf (1.47 MB)Additional Information: [full citation](#), [abstract](#), [reference](#)**Bibliometrics:** Downloads (6 Weeks): 5, Downloads (12 Months): 91, Downloads (Overall): 187

Parallel, multithreaded C and C++ programs such as web servers, database managers becoming increasingly prevalent. For these applications, the memory allocator is often




**19** [Metadata update performance in file systems](#)[Gregory R. Ganger](#), [Yale N. Patt](#)November 1994 **OSDI '94: Proceedings of the 1st USENIX conference on Operating Systems****Publisher:** USENIX AssociationFull text available:  Pdf (84.28 KB)Additional Information: [full citation](#), [abstract](#), [reference](#)**Bibliometrics:** Downloads (6 Weeks): 4, Downloads (12 Months): 23, Downloads (Overall): 57,

Structural changes, such as file creation and block allocation, have consistently been in many user environments. We compare several implementations that maintain metadata

**20** [Unified system builder through interacting blocks \(USB/B\) for soft real-time system](#) [Nunzio-Nicoló Savino-Vazquez](#), [Juan-Luis Anciano](#), [Carlos Juiz](#)July 2002 **WOSP '02: Proceedings of the 3rd international workshop on Software Analysis****Publisher:** ACM  [Request Permissions](#)Full text available:  Pdf (167.41 KB)Additional Information: [full citation](#), [abstract](#), [reference](#)**Bibliometrics:** Downloads (6 Weeks): 1, Downloads (12 Months): 11, Downloads (Overall): 203

From the functional point of view, one of the most usual approaches to carry out real-time system as a set of software modules such as activities collaborating through interaction

**Keywords:** MASCOT, performance modelling software components, real-time systems

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